

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph beginning on page 5, line 12 and ending on line 19 with the following rewritten paragraph.

If 126 the measured color signal is within a reasonable range of the predicted color signal then the measured color signal is deemed to be correct and the measured color signal is used in further processing **130**. For example, the measured color signal is used as a feedback signal. The feedback signal is used to close a control loop and/or to update system model parameters. The measured color signal may also be logged or entered into a database to contribute to an historical performance database. The historical performance database may be used as an alternate predictor of system output.

Please replace the paragraph beginning on page 5, line 25 and ending on page 6, line 21 with the following rewritten paragraph.

If 126 the measured color signal is outside a reasonable range from the predicted color signal, an error counter is incremented **134**. The error counter is incremented **134** in order to keep track of a number of, or a rate at which, transient errors or glitches occur. While an occasional transient error can and should be ignored for feedback or historical performance database purposes, frequent frequent or persistent transient error events may indicate the presence of a significant problem in the system. Therefore, in an error counter evaluation **138** a determination is made as to whether transient errors have been occurring too frequently or if a total number of the transient errors is too high. If 138 the results of the evaluation warrant it, provisions are made to repair the system **142**. For example, an alarm message is displayed requesting that a service call be made. Alternatively the system itself may send an electronic message, such as an email or a phone call, requesting diagnostic and repair services. Even if repair services are requested, system operation may continue. Certainly, if transient errors have been occurring at a tolerable rate, processing continues. A signal substitution **146** temporarily replaces the color measurement signal with a preferred reasonable value. For example, the predicted color signal is temporarily used for the purposes of further processing. Alternatively, a value derived from the historical database is

used. Whatever value is selected to be the preferred color signal, that value is used in further system processing **150**. For example, the preferred 146 color signal may be used in place of the color measurement signal for the purpose of closing a control loop. Of course, the phrase --closing a control loop-- is used loosely here. The preferred 146 color signal is delivered to a control system that expects and requires a feedback signal. However, since the preferred 146 color signal is mathematically or statistically determined, and not a real measurement, the preferred 146 color signal is not a closed loop feedback signal in the strictest sense. Nevertheless, the preferred 146 color signal is expected to be a closer representation of current system performance than the glitch or transient containing, measured color signal. In this respect, the temporary substitution of the preferred color signal for the measured color signal filters the glitch or transient error from the measured color signal.